



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 10, 2015

Ms. Terrie Moore  
Regulatory Affairs Manager  
Bayer CropScience, Environmental Science Division  
2 T.W. Alexander Drive  
RTP, NC 27709

Subject: Label Amendment – Revising use restrictions and spray drift management language  
Product Name: SysStar WDG  
EPA Registration Number: 432-1440  
Application Date: 07/08/2015  
Decision Number: 506988

Dear Ms. Moore:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2  
EPA Reg. No. 432-1440  
Decision No. 506988

with FIFRA section 6. If you have any questions, please contact Lisa Pahel by phone at (703) 347-0459, or via email at [pahel.lisa@epa.gov](mailto:pahel.lisa@epa.gov).



Shaja B. Joyner, Product Manager 20  
Fungicide-Herbicide Branch  
Registration Division 7505P

Enclosure

# SysStar® WDG Fungicide

A systemic water dispersible granular formulation for excellent control of multiple turfgrass and ornamental plant diseases.

|  |                |
|--|----------------|
| <b>ACTIVE INGREDIENT:</b> Thiophanate-methyl, (dimethyl [(1,2-phenylene) - bis (iminocarbonothioyl)] bis [carbamate])..... | <b>28.58%</b>  |
| Flutolanil, N-(3-(1-methylethoxy)phenyl)-2-(trifluoromethyl)-benzamide.....  | <b>51.42%</b>  |
| <b>INERT INGREDIENTS:</b> .....  | <b>20.00%</b>  |
| <b>TOTAL:</b> .....  | <b>100.00%</b> |

EPA Reg. No. 432-1440

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-331-2867

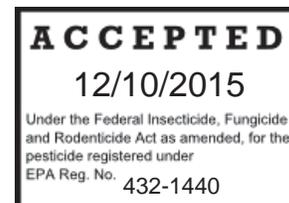
| <b>FIRST AID</b>  |   |
|---|---|
| <b>If swallowed:</b>  | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>If in eyes:</b>  | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>   |
| <b>If on skin or clothing:</b>  | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>   |
| <b>For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.</b>  |   |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. |   |

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.



## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are polyvinyl chloride (> 14 mil), natural rubber and polyethylene.

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant (such as nitrile or butyl) gloves and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE/clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

## ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

## DIRECTIONS FOR USE

**It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks and
- Chemical-resistant headgear for overhead exposures.

## PRODUCT INFORMATION:

SysStar WDG is an efficacious formulation of two systemic chemical fungicides. Flutolanil and thiophanate methyl together give excellent control of multiple turfgrass and ornamental plant diseases for long periods of time due to their systemic activity. SysStar WDG is a water dispersible granular especially suitable for application with conventional spraying equipment. After applying SysStar WDG, irrigate with sufficient water to move the product down to the soil line. With adequate water to move the chemicals through the soil profile to the plant roots, fungicidal activity begins when the roots absorb the fungicide and translocate it through out the treated plant. Thirty days of control is generally obtained. The chemical presence is largely diminished by removal of clippings when mowed. Otherwise, much longer protection can be obtained.

SysStar WDG controls both dollar spot and brown patch diseases of turfgrass. It works both as a preventive and curative fungicide. Other diseases controlled by SysStar WDG include fairy ring, patch diseases, and Ectotrophic fungi – caused root diseases. For ornamental landscape, nursery and container grown plants, SysStar WDG may be foliar sprayed or drenched into the planting soils, where many diseases are controlled. When the fungicide is absorbed by the roots it is translocated through-out the growing plants. Rhizoctonia, Sclerotium rolfsii, and Gaeumannomyces graminis can be prevented from disease activity. Oomycete fungi are not controlled with SysStar WDG.

Systemic fungicides are more effective when taken up by the roots and carried upward through the plant in the xylem stream. Roots, crowns, and shoots are all protected in this manner. Use SysStar WDG for the ultimate fungi control and protection. Dual systemic action without growth regulation on the treated plant.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses. Do not enter or allow others to enter until sprays have dried.

## SPRAY DRIFT MANAGEMENT

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator or grower. To reduce the potential for drift, the application equipment must be set to apply medium to large droplets (i.e., ASAE Standard 572) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume, using the appropriate droplet size to ensure adequate canopy distribution, coverage, and penetration. With most nozzle types, narrower spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

## APPLICATION INSTRUCTIONS

### TURF

For use on all fine turf applications such as industrial lawns, athletic field, home lawns, cemeteries, golf course greens, tees, and fairways of Bentgrasses, Bluegrasses, Bermudagrasses, Zoysiagrass, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. SysStar WDG is not phytotoxic. Use the highest recommended rates when conditions are favorable to disease development.

### TURF USE RESTRICTIONS

- Do not apply more than 6.12 oz of SysStar WDG /1,000 sq ft/year.
- For use rates over 3.0 oz per 1000 sq ft, do not apply SysStar WDG within 100 feet of any estuary or marine habitat or within 100 feet of any ditches, drainage tiles, or other waterways that drain directly into (within 0.5 mile) estuaries or marine habitats.

### DOLLAR SPOT (*Sclerotinia homoeocarpa*), ANTHRACNOSE (*colletotricum graminicola*)

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning when disease first appears and continue at 14 day intervals through the season. Thirty day control is possible, especially at higher application rate. Reduce spray intervals when conditions are unusually favorable for disease development.

### LARGE BROWN PATCH OR RHIZOCTONIA BLIGHT (*Rhizoctonia solani*), COPPER SPOT (*Gloeocercospora sorghi*), RED THREAD (*Cortecium fuciforme*), FUSARIUM PATCH (*Fusarium nivale*).

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning at first disease appearance. Continue applications at 14 to 21 day intervals through the season.

### RED THREAD, PINK PATCH, YELLOW PATCH, SOUTHERN BLIGHT

Apply SysStar WDG at 2.0 oz/1000 sq ft beginning at first disease appearance. Continue applications at 21- 28 day intervals through the season.

### GRAY LEAF SPOT, LEAF SPOT (*Dreschlera spp.*) (*Helminthosporium spp.*)

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning when disease first appears. Continue at 14 day intervals.

**GRAY SNOW MOLD (*Typhula spp.*) PINK SNOW MOLD (*Microdochium nivale spp.*)** Apply in the fall, prior to snow cover 4.0 to 6.12 oz/1000 sq ft. For best results lightly water this application into the root zone.

**FAIRY RING (including: *Marasmius spp.*, *Lepiota spp.*, *Agaricus spp.*)** Preventative: applied at 3.0 oz/1000 sq ft in 3-5 gallons of water may suppress the development of fairy ring caused by various basidiomycete pathogens. A second application may be made at a 21 to 28 day interval using the same dosage rate. Curative: applied at 6.12 oz/1000 sq ft in 10-50 gallon of water may suppress the development of fairy ring. Application should be make as a spot treatment to the affected area at the first sign of ring development (greening, death of turf, mushrooms). Symptom suppression may be temporary and symptoms may reoccur. Aerification prior to subsurface applications has been beneficial in some cases. Use of a nonionic surfactant in combination with SysStar WDG is recommended. Treated areas should be irrigated prior to and after application with sufficient water to maintain growth of turf. Do not treat more than 10,000 sq ft per acre of turf area.

## ORNAMENTALS

SysStar WDG is a broad spectrum systemic fungicide which controls a variety of diseases on annual and perennial plants, ground covers, woody and herbaceous ornamentals in greenhouses, shade houses, saran houses and outdoor containers; field grown and nursery stocks. Apply SysStar WDG with conventional spraying equipment in a uniform manner for even coverage. Use the highest recommended rates when conditions are favorable to disease development. Do not use any treated plants for food or feed purposes.

| <b>PLANT TYPES AND DISEASES CONTROLLED</b> |   |
|--|---|
| <b>DISEASE(S)</b>                          | <b>PLANT TYPES</b>  |
| Anthrancnose                               | woody ornamentals, shade trees (1)  |
| Ascochyta Blight                           | herbaceous ornamentals  |
| Black Spot                                 | roses   |
| Botrytis (Gray mold)                       | woody and herbaceous ornamentals  |
| Rhizoctonia                                | woody and herbaceous ornamentals  |
| Cercospora Leaf Spot                       | woody and herbaceous ornamentals  |
| Corynespora Leaf Spot                      | ligustrum   |
| Didymellina Leaf Spot                      | iris  |
| Diplodea Tip Blight (Diplodea piea)        | shade and ornamental trees  |
| Ovulinia                                   | azalea, rhododendron (2)  |
| Entomosporium Leaf Spot                    | woody and herbaceous ornamentals  |
| Phomopsis Blight                           | woody and herbaceous ornamentals  |
| Powdery Mildew                             | woody and herbaceous ornamentals, ornamental nut and fruit trees (non edible fruit) |
| Ramularia Leaf Spot                        | herbaceous ornamentals  |
| Scab                                       | pyracantha, flowering crab, ornamental fruit and nut trees (non edible fruit)       |
| Septoria Leaf Spots                        | woody and herbaceous ornamentals  |

- (1) Begin at bud break and make 2 or 3 additional applications at 10 to 14 day intervals.
- (2) Begin treatment as flowers open.
- (3) Make no more than four applications of SysStar WDG per year to ornamental plantings.

Foliar spray application: Apply SysStar WDG at 4 to 8 oz/100 gallons of water. Spray mixture until spray runs off of foliage.- For best results apply prior to disease development.

Soil drench application: Apply SysStar WDG at 2 to 4 oz/100 gallons of water. Application to ground and raised beds should be delivered at 1 pint drench solution per sq ft (4 inch depth or less) and 2 pints per sq ft for depths greater than 4 inches. Re-apply as needed for disease control.

SysStar WDG systemic fungicide may be applied over-the-top of ornamental plants or drenched into the soil. The active ingredients are then absorbed by the foliage or the roots on contact and move via the xylem stream upward through the plant.

**NOTICE TO USER:** Plant tolerance to SysStar WDG has been found to be acceptable on all ornamentals that it has been tested on. Due to the large number of species and varieties of ornamental and nursery plants it is impossible to test every one for tolerance to SysStar WDG. Neither the manufacturer nor the seller has determined whether or not SysStar WDG can be used safely on ornamental plants not specified on this label. The professional user should determine if SysStar WDG can be used safely prior to commercial use. In a small area treat the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using SysStar WDG in tank mixture with other products, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### PESTICIDE STORAGE:

Store in original container and keep tightly closed. Store in a cool dry area.

### PESTICIDE DISPOSAL:

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

SysStar is a registered trademark of Regal Chemical

Produced for



Bayer Environmental Science

Bayer Environmental Science  
A Division of Bayer CropScience LP  
PO Box 12014, 2 T. W. Alexander Drive  
Research Triangle Park, NC 27709

SysStar WDG Fungicide (PENDING) 06/24/2015, 06/29/2015, 07/07/2015, 07/08/2015, 11/30/2015